

RF AMPLIFIER

Medium Power Amplifier

MODEL *BXMP1029*

Available as: BXMP1029, SMA Connectorized Housing

Features

- Ultra High Second Order Intercept: +91 dBm Typical
- High Output Power: +31.5 dBm Typical
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +93 dBm (Typ.)
 Second Order Two Tone Intercept Point +91 dBm (Typ.)
 Third Order Two Tone Intercept Point +48 dBm (Typ.)

Specifications

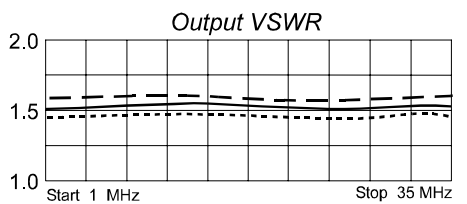
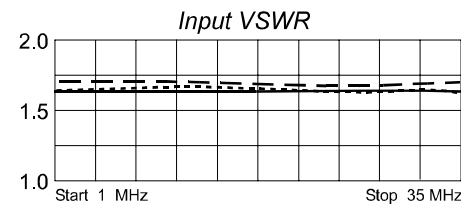
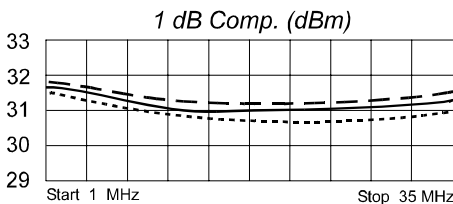
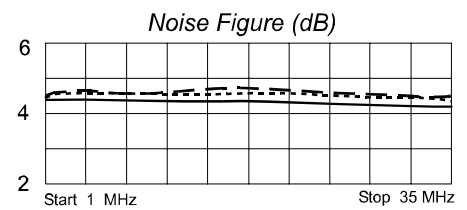
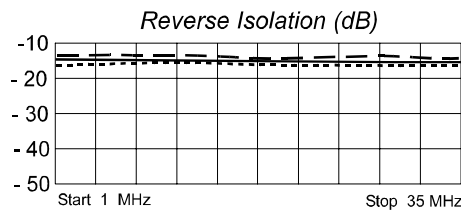
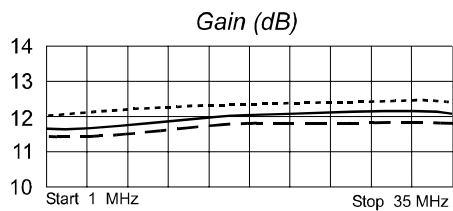
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	1 - 35 MHz	1 - 35 MHz
Gain (dB)	12	11 Min.
Power @ 1 dB Comp. (dBm)	31.5	30 Min.
Reverse Isolation (dB)	-15	-14 Max.
VSWR In	1.8:1	2:0:1 Max.
VSWR Out	1.8:1	2:0:1 Max.
Noise figure (dB)	4	5.0 Max.
Power Vdc	+15	+15
mA	400	425 Max.

Note: Care should always be taken to effectively ground the case of each unit.

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 18 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



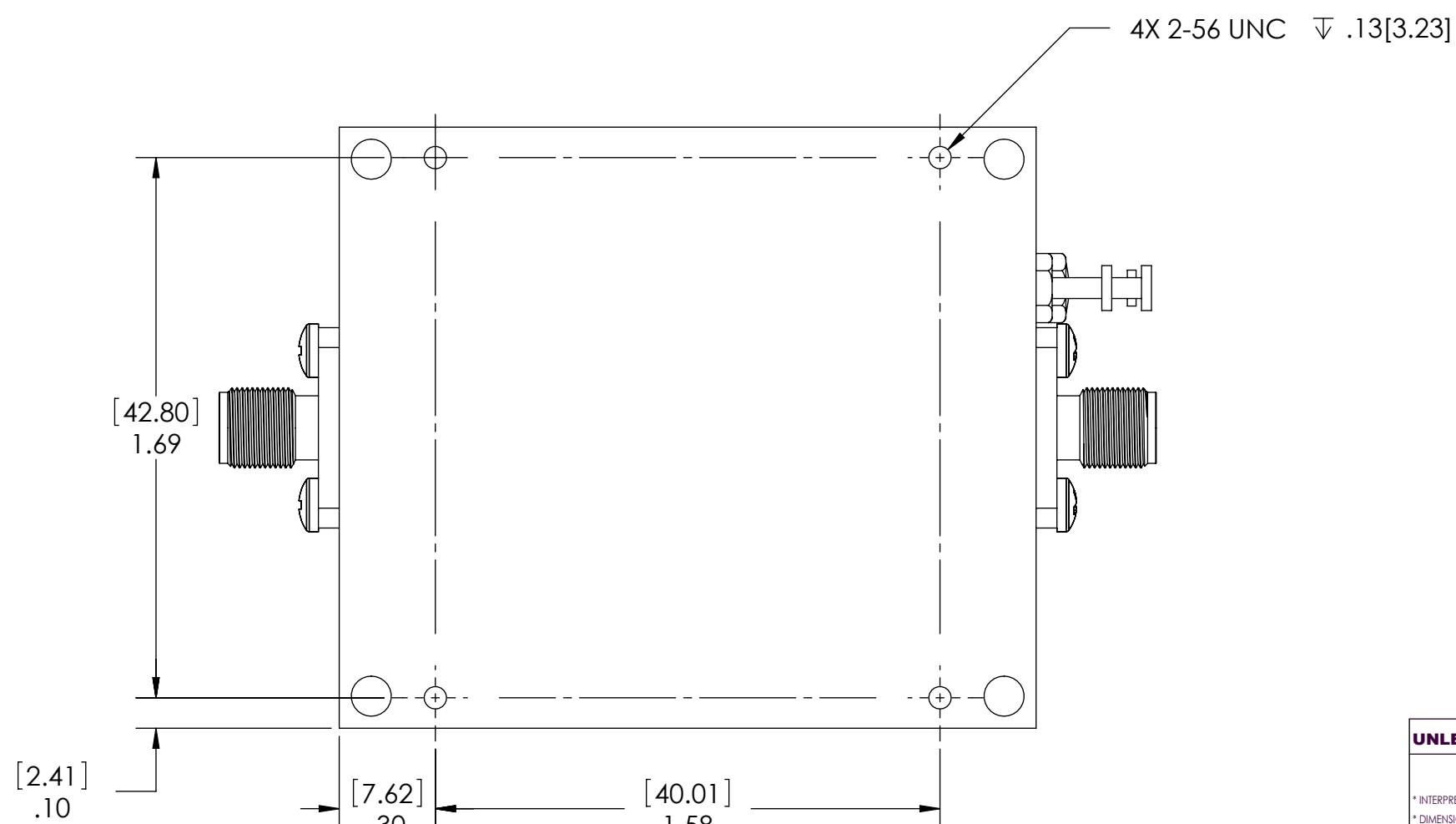
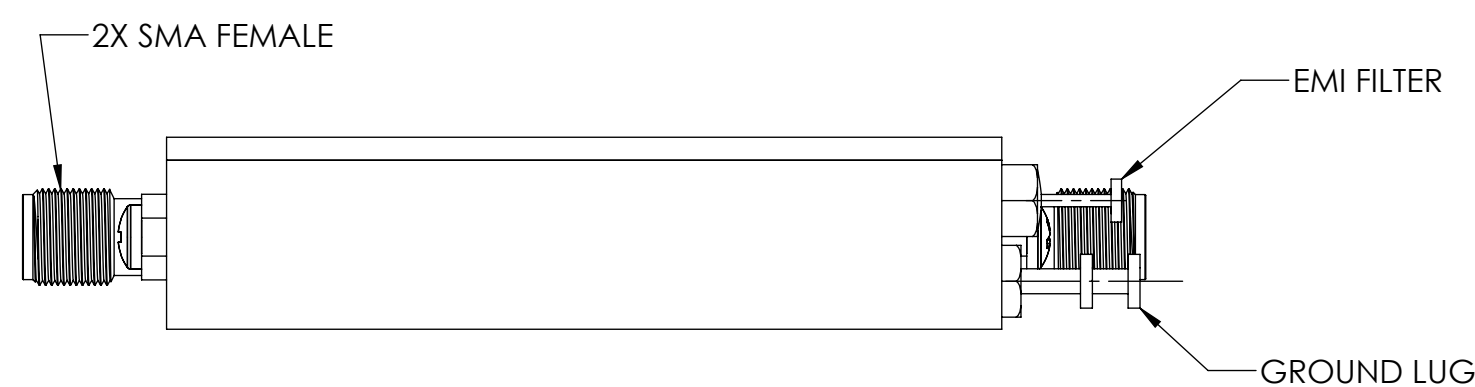
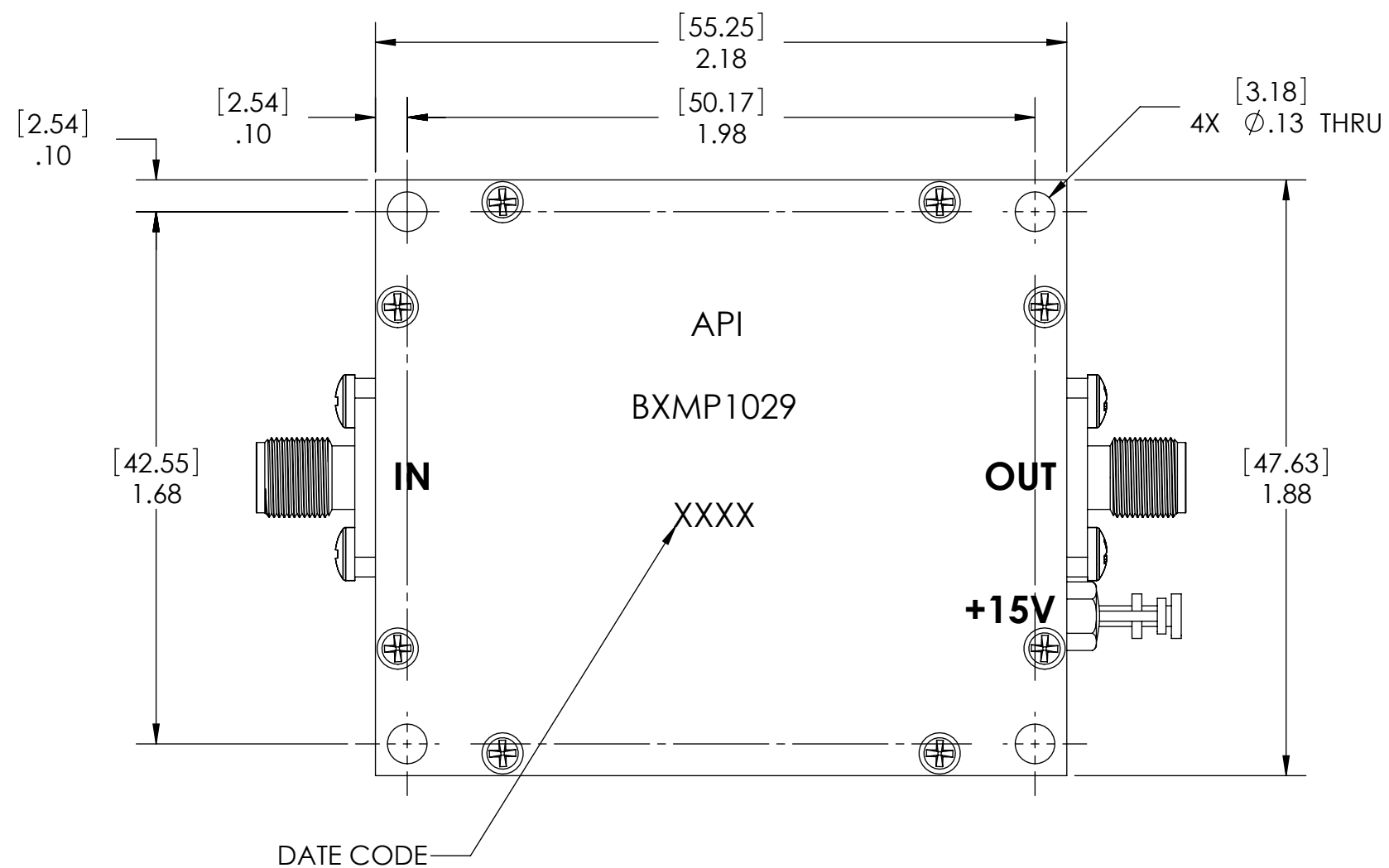
Legend ——— + 25 °C - - - - + 70°C ······ 0 °C



REVISIONS				
ECN	REV.	DESCRIPTION	CHNG/DATE	APPVD/DATE
1494	-	RELEASE		

NOTE:

- 1. MATERIAL: HOUSING ALUMINUM, NICKEL PLATED



CAUTION

THIS ASSEMBLY CONTAINS PARTS SENSITIVE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). USE ESD PRECAUTIONARY PROCEDURES WHEN TOUCHING, REMOVING OR INSERTING

ADD -U AFTER DRAWING NUMBER TO FORM COMPLETE PART NUMBER FOR UNPLATED PART

UNLESS OTHERWISE SPECIFIED		3rd ANGLE PROJECTION		api technologies corp. PHILADELPHIA OPERATIONS 2707 BLACK LAKE PLACE, PHILADELPHIA PA. 19154 (USA)	
* INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100-2004		ANSI		DRAWN WAR DATE 2014/11/13	
* DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ASME Y14.5-1994		CHECKED		ENGRG HP DATE 2014/11/13	
* PARENTHESES ARE FOR REFERENCE ONLY		MFG		QA	
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		APPROVED		SIZE C CAGE CODE 60979 DWG NO. 088-00429 REV -	
* DIMENSIONS ARE IN INCHES		DO NOT SCALE DRAWING		SCALE: 2:1 SHEET 1 OF 1	
* TOLERANCES ARE: ANGLES ±1.0° 2 PLACE DECIMAL ±.02					
* SURFACE FINISH 63 3 PLACE DECIMAL ±.005					
* REMOVE ALL BURRS AND SHARP EDGES 0.10 RAD MAX.					
* CONCENTRICITY MACHINED DIA. .002 FIM					
* MACHINED TOOL MISMATCH .002 MAX.					

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